

# Eye-Pal Ace Plus

Version 1.7



## User Manual

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# Introduction

Congratulations on choosing the Eye-Pal Ace Plus device.

ABiSee's Eye-Pal Ace Plus (hereafter referred to as Ace Plus in this manual) is a portable electronic text-to-speech device. At the same time, the Ace Plus can be used to send and receive emails, download and read Bookshare books, and also be used as a multi-tasking daily assistant for people with visual impairment. Compatible with refreshable Braille displays, it is also fantastic for people who are totally blind who want the option to instantly convert text to Braille. It has internal speakers, a rechargeable battery, and a 10-inch built-in screen. You can enjoy reading any printed material such as letters, newspapers and books. The text will be displayed in a magnified font and will be read out loud to you using a naturally sounding voice. You can use the Ace Plus as an electronic photo album, magnifying glass, alarm clock, and an appointment reminder as well.

It is a truly portable device, weighing only 3.5 pounds, characterized by a contemporary design with time-tested simple controls. Thus, it is easy to operate for senior citizens and people with disabilities-- whether it is being used to read, to record and schedule voice reminders, or to listen to the alerts. The additional talking clock feature comes in handy many times a day.

This manual will familiarize you with the functions and features of the Ace Plus. In order to get the maximum benefit from using your new Ace Plus, please browse the description of all of the device's functions.

If you have any questions or suggestions concerning the use of the Ace Plus, please contact us at ABiSee, Inc. using the contact information on the last page of this manual - your feedback is greatly appreciated.

We hope you enjoy using your Ace Plus.

## What's in the Box

In the Ace Plus box you will find:

- the Ace Plus device
- the Ace Plus power supply (which has a rectangular piece approx. 4 inches by 2 inches by 1 inch with a cord attached)
- the Ace Plus power cord (a cord with a big prong on one end and smaller prong on the other)
- this user manual
- a small objects placemat

If any of these items are missing from your package, please contact us at ABiSee, Inc. using the contact information on the last page of this manual.

## **The Basics**

### ***Reading/Zoom Cameras***

Ace Plus has two 5 mega pixel cameras. Both cameras work simultaneously to take a snapshot of your material. Place the document in the *landscape position*, directly alongside the front of the Ace Plus. The optimal camera-viewable area is a letter/A4 paper sized (8.5" by 11").

### ***Object Lighting***

Both cameras automatically provide sufficient lighting when taking a snapshot. No additional light is needed even in a dark room.

### ***Speakers***

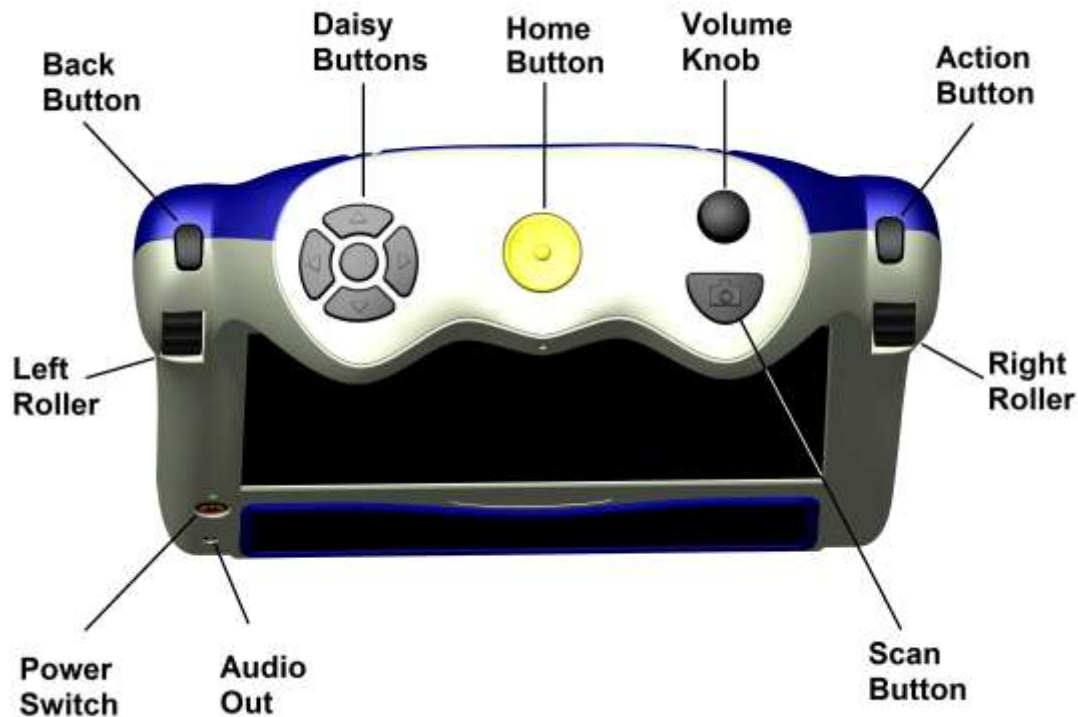
Any material with printed text placed in front of the Ace Plus will be read out loud using built-in speakers. Alternatively, headphones can be plugged in or the Voice Mode can be turned off for those who prefer to read silently.

### ***Position***

The top of the device has panel with a set Daisy arrow buttons on the left side, a large round button in the center, a volume knob on the right toward the back, and a half-moon shaped Scan Button. The front of the device has a Screen with Thumb Wheels at the top of each side. When taking the device out of the box and setting it up to scan a document, place the device on a flat surface with the front of the device facing you and the top panel facing the ceiling. It must be in this upright, flat position when scanning a document, but once you have scanned a document, you can hold the device comfortably on your lap, tilted however you'd like while listening or reading.

## **Buttons, Controls, Connections**

The diagram below has a picture of the device with all of the buttons and controls labeled. Below the diagram, each of the buttons and controls are described. If you are reading this manual using this device, please be aware that the labels on the diagram will not be converted verbatim. When you hear "Top Panel Buttons," you will be past the diagram and ready to hear the full description.



### Top Panel Buttons:

- Home Button: press this to get to the Main Menu
- Scan Button: press this to take a snapshot of a document
- Volume Knob: turn it to control the volume
- Right Roller: scrolls up or down the menu Action Button: press this to choose a menu item selection
- Left Roller: scroll up to increase font size or down to decrease font size. Alternatively, in the settings choices, the Left Roller function can easily be switched to control reading speed rather than font size.
- Back Button: press this when in a sub-menu to return to the previous menu, or to turn the camera lights on or off
- Set of five Daisy Buttons: press the Daisy arrow Buttons to move up, down, left, right; press the center Daisy Button to remind you of which function you are currently using, hear your battery status and to find out you are connected or disconnected from your Network.

### Home Button:

A large round button located in the middle on top of the device. Press it anytime to get to the main menu.

**Volume knob:**

Located in the upper right corner, on top of the device. Turn it clockwise to increase the volume or counterclockwise to decrease the volume.

**Daisy Buttons:**

Located on the left side on top of the device. Daisy Buttons have total of five buttons: four arrow buttons and one round button located in the middle.

**Using Buttons in Scan and Read mode:****Daisy Buttons:**

- Press and hold the round button in the middle of the arrow keys while repeatedly pressing the right arrow button to spell the characters in the next word. Doing this while pressing the left arrow will spell the previous word.
- Press the left arrow to read the previous word
- Press the right arrow to read the next word
- Press the up arrow to go to the top of the text
- Press the down arrow to go to the bottom of the text

In this and all other modes, the center button can be pressed to hear to hear the battery status and whether you are connected or disconnected to your Network.

**Action Button**

This is located on the right side of the device above the Right Roller. Press this Button to select the desired menu option. In Reading mode – this Button is used to pause and resume reading. When using a Network Account, or Adding a Network, the Action Button is used to select letter and character choices for passwords, title searches and adding email addresses to your Address Book.

**Right Roller**

This is located at the front right shoulder of the device. Scroll it up or down to go through the menu options. In reading mode, use the Right Roller to scroll up or down to go to the previous or next line. When using a Network Account or Adding a Network, use the Right Roller to scroll through letter and character choices.

**Left Roller**

This is located at the front left shoulder of the device. Scroll it up to up to increase font size or down to decrease font size. Alternatively, in the settings choices, the Left Roller function can be easily be switched to control reading speed rather than font size.

**Scan Button**

The Scan Button is a half-moon shaped Button located on the right on top of the device in front of the Volume Knob. This is used to take a picture of a document you want to

scan.

### **Back Button**

This is located above the Left Roller. From the Main Menu, when you select an option such as the Clock or Settings menu choice, you can access additional functions from a sub-menu. From a sub-menu, press the Back Button to return to a previous menu option. The Back Button can also be used to turn the camera light off or on in the Scan and Read and Zoom modes. Press it once to turn the camera light off. You will hear, “Light Off.” Press it again to turn the camera light on. You will hear, “Light On.”

When trying to delete a document, book or photo, if you accidentally choose the wrong item to delete, when you are prompted to confirm you want to delete the item, use the Back Button to cancel your choice.

### **Audio Output Socket**

A 3.5mm audio output socket is located on the front of the device in the lower left corner, below the Power Button. The audio socket can be used for plugging in external speakers or a headset.

### **Side Connections**

On the left side panel there is an outlet for the power connector and a USB port.

To summarize, in general, use the **Right Roller** to scroll through the menu items and the **Action Button** to confirm the menu selection. Use the **Back Button** when in a sub-menu to return to the previous menu. Use the **Home Button** to return to the Main Menu.

## **Power and Battery**

### ***Power Switch Button***

The Power Button is located on the front of the device in the lower left corner.

### ***Power Indicator Light***

The Power indicator light is located above the Power Button. The light glows steady green when the device is on; the light blinks when device is in standby mode; the light is off when the device is turned off. It glows red when the device is off and is being charged, and glows orange when the device is on and is being charged.

### ***Power Up***



Press the Power Button to power up the device. The start-up process takes approximately 90 seconds. You will hear a series of beeps that let you know the device is starting up. When the Ace Plus is ready, you will hear the announcement: “Main Menu: Scan and Read.”

## ***Standby Mode***

When operating the device on battery power, after five minutes of inactivity, the Ace Plus goes into standby mode, in order to consume less power. A short series of tones indicates when the device is going into this mode, and then a blinking power indicator light indicates that the device is on standby.

Press the Power Button to wake up the Ace Plus and return it to the active mode.

It will take about 15 seconds for the Ace Plus to “wake up.” You will hear a series of beeps and when the beeps stop, the device is ready for use. While in sleep mode, the device will remain in the screen you left off and wake up in the same spot. If you want to check which screen you are in, press the Center Daisy Button. If you want to return to the Main Menu, press the Home Button.

## ***Power Down***

Press and hold the Power Button for approximately three seconds to power down the Ace Plus completely. You will hear a short series of beeps as it powers off.

## ***Checking the Battery Charge Status***

To quickly check the battery status, press the round Center Daisy Button. You will hear an announcement that tells the battery status, and whether or not you are connected to a Network.

The battery status is also announced in the Settings sub-menu under Status. The Status menu is accessed by pressing the Home Button to get to the Main Menu and then using the Right Roller to scroll until you hear “Settings.” Next, press the Action Button to select it. Use the Right Roller again to scroll to Status and press the Action Button to select it.

The Ace Plus will announce the percentage of available battery charge (also displayed in the screen): “100%” means a fully charged battery.

If the battery charge is below 15%, it is time to re-charge the device. The Ace Plus can be used while it is being charged.

## ***Charging the Battery***

**Important: Before the first use, the Ace Plus's battery needs to be charged for two hours.** To charge the battery on the Ace Plus, use the power supply and power cord provided as follows: First connect the power cord end with the small prong into the port at the end of the rectangular part of the power supply. Next, plug the power supply cord into the power port on the Ace Plus, which is located at the bottom of the left side panel. Finally, plug the power supply into a power outlet.

Do not use the Ace Plus while it is being charged for the first time. Later on, the device can be used while it is being charged.

In general, charging a depleted Ace Plus battery to full capacity takes approximately two hours. A fully charged Ace Plus battery lasts for about five hours of continued use.

Please note that, for safety reasons, only the adapter supplied by ABiSee, Inc. should be used to charge the Ace Plus device.

## ***Extending Battery Life***

In order to ensure that the battery operates efficiently for a long time, disconnect the Ace Plus from the power source at least once a month and operate it on battery power until the battery charge goes down to below 15%.

## **Internet Connection**

Before we move on to describe how to Scan and Read documents and all the other Menu options and functions, here's a note about the why your device has the word "Ace Plus" in its name:

The Ace Plus offers all the features of the standard Ace device (which are described in this manual), PLUS Internet connectivity.

Internet functions available on the Ace Plus include:

- Ability to download books from Bookshare
- Ability to send and receive emails

To use Internet functions on the Ace Plus, you will need access to an available WiFi network. If the WiFi network you would like to use requires a password, you will need to know the password to connect to it. When you choose a network, such as a home wireless network that needs a password, you will be prompted to enter it.

Some public places, like many public libraries, offer free WiFi connection with open

access and no password needed. Other places, like airports, coffee shops and hotels, may require a terms agreement for users to accept user terms. The available network being used with the Ace Plus must be one that does not require you to read and accept user terms.

To use the Library function on the Ace Plus, you must have a Bookshare Account.

Please contact the dealer who sold you the device or ABiSee's tech support at 1-855-354-4080 for assistance connecting to WiFi.

## **How to Register the Device and Obtain an Email Account**

If you use a computer or have someone who can assist you with online registration, please follow Steps One and Two below. If you do not use a computer, please call ABiSee, Inc (855) 354-4080 with the PIN number provided with the shipment of your device to register your device by phone and obtain an Email Account, and then proceed to Step Two below.

### **Step One:**

Go to: [www.abisee.org](http://www.abisee.org)

Select Create New Account

Enter the Device Serial Number

Enter PIN provided to you by ABiSee with the shipment of your device

Enter Password - any password you'd like to create

Enter your email address, not the .abisee.org, but the alternative one

Enter the contact name for this device

Enter phone number for the contact name

Select your relationship to the device user

Press Create Account button

Enter the username you would like to have for the abisee.org email account on this device

### **Step Two:**

Turn on the device

Go to Settings>System Settings>Device Registration

Press the Action button

Wait until the registration info is retrieved

Press the Home Button

Go to Settings>System Settings>Network accounts>Email and make sure your Username is correct according to your registration.

Follow the steps in the section below on how to enter characters and how to add and connect to a Network to send and receive emails. Then follow the steps in the Email

section of this manual for instructions on how to add contacts to your Address Book,

**Please note:** In order to receive emails to your Ace Plus email account, the contact has to send the email to the username you selected followed by @abisee.com. Additionally, only contacts entered in your Address Book will be able to send and receive emails via your Ace Plus email account.

Send a test email to someone in your address book and ask for a reply to make sure your email is set up. If you need any assistance, please call your local dealer or ABiSee for assistance.

## **How to Add an Available Network to your Device**

To add an available Network to your device, start from the Main Menu screen and scroll to Settings and select it with the Action button. Then scroll to and select System Settings. Next, scroll to and select Wireless Network Settings. Scroll to and select Add/Delete Networks. Then scroll to and select Add Network. Scroll through the list of networks until you come to the one you would like to connect to and select it with the Action button. If it is password protected, you will be prompted to enter a password.

## **How to Enter Passwords and Characters**

When using Internet functions, you will be able to enter characters to spell out Bookshare book titles you want to search for, and enter characters to add names and email addresses to your Address Book. When signing on to your Bookshare Account or some Wireless Network Accounts, you will need to enter a password.

Later in this manual, you will learn how to scroll to and select specific functions, like the Address Book or Library which require character entry. You'll also learn how to bring up the screen that will prompt you for your entry. When your selection brings you to a place where you need to enter characters, press the Up arrow to move between lowercase, uppercase, numbers, email shortcuts and symbols. For example, if you are in a mode to enter a password and you want to start with an uppercase letter, press the Up arrow until you get to the choice "Uppercase."

Use the Right Roller to scroll to the character you want and select it with the Action Button. If you enter a character in error, use the Left Arrow button to delete it. When you want to complete your entry, press the Right Arrow Button.

## **How to Connect to a Network**

To connect to a Network, start from the Main Menu screen, scroll to Settings and select it with the Action Button. Next, scroll to and select System Settings. Then, scroll to and select Wireless Network Settings. Next, scroll to and select Connect to Network.

Choose the Network you added from the instructions in the previous section.

## **Navigation and Settings**

In this section, you will learn about all the Menu options and how to navigate your way through scanning and reading and other functions. Let's start by pressing the Home Button to get to the Main Menu.

### **Main Menu**

The Main Menu consists of the following menu items:

- Scan and Read
- Library
- Email
- Address Book
- Calendar (Includes a reminder function)
- Zoom
- Photo Album
- Clock (Includes an alarm function)
- Settings
- Help

### ***Scan and Read***

This application enables you to read printed text like letters, documents, books, portions of food packages and pill bottle labels, including the fine print. The Ace Plus reads printed text aloud and displays magnified text on the screen.

#### ***Positioning a document***

The Ace Plus can scan and read a document that fits in the 8 ½ by 11 inch field directly in front of the device on a flat surface. Use the base of the device as a guide and place the long side of the paper so that it is aligned with the length of the base. The orientation of the document will not influence the recognition of the text.

If you are scanning a document that is smaller than 8 ½ by 11 inch field, the Ace Plus will provide the best results if you place a blank sheet of 8 ½ by 11 inch paper in the scanning area and lay your smaller document on top of that. For smaller documents, it works better to place it toward the right side of the scan field rather than in the center of the blank page.

## ***Scanning and Reading Printed Material***

This section provides directions for Scanning and Reading documents via the text and voice mode. If you prefer to read using a refreshable Braille display, please refer to Appendix C in this manual for information and instructions.

### Scanning and Reading without a Braille Display:

Turn on the Ace Plus device by pressing the power button. You will hear a series of beeps followed by the announcement: “Main Menu: Scan and Read.” Press the Action button to choose the Scan and Read option.

Position your document as described above.

Press the Scan Button once – you will hear a shutter sound. The Ace Plus will start reading the text almost immediately after that.

Do not press any other buttons when doing the Scan and Read operation, as it will interrupt the scanning/reading process.

## **Reading modes**

The scanned material may be read in:

- Voice Mode: convenient for having the text read aloud - the default choice
- Text Mode: convenient for reading text on the screen quietly without hearing the voice output.

The Scan and Read modes can be changed under the Settings menu item of the Main Menu. In order to change the **Scan and Read mode**, press the **Home Button** to go the **Main Menu**. Use the **Right Roller** to scroll down to the **Settings** menu option and choose this option by pressing the **Action Button**. Next, use the **Right Roller** to scroll down to the **General Settings**, and press the **Action Button** to select this option. Then, use the **Right Roller** to scroll down to the **Reading Mode**, and press the **Action Button** to select this option. Then, use the **Right Roller** to scroll down to the desired option (Voice Mode or Text Mode), and press the **Action Button** one final time to set the selection.

## **Voice Mode**

The **Voice Mode** is the default mode.

Use this mode when you want the Ace Plus to read the text aloud. The Ace Plus will automatically start reading a few seconds after the Scan Button is pressed. To pause/resume the reading, press the Action Button. Captured text will be formatted and

displayed on the screen in high contrast.

## Voice Mode Settings

### Reading Speed:

This setting allows adjustment of the speed in which the document is read aloud by the Ace Plus. If you would like to be able to adjust the reading speed with the Left Roller while reading a document, you can choose to set the Left Roller Mode to “Reading Speed.” You can also set a Reading Speed from the General Settings Menu which will keep the reading speed at a set pace you choose once. By default, the Left Roller Mode will be set to Font Magnification, which will allow you to control the font size as you read. If you would rather use the Left Roller to control reading speed as you read instead of using it to control Font Magnification as you read, you can switch the Left Roller Mode to “Reading Speed” by doing the following:

Press the Home Button to go to the Main Menu. Use the Right Roller to scroll down to Settings and choose it by pressing the Action Button. You will hear “General Settings.” Select this by pressing the Action Button. Use the Right Roller to Scroll to Left Roller Mode and select it with the Action Button. You will hear “Reading Speed.” Press the action button to set your Left Roller Mode to Reading Speed. To change the Left Roller Mode back to Font Magnification, use this same process, but when you are in the General Settings menu, and you then choose “Left Roller Mode,” you will need to scroll past “Reading Speed” until you come to “Font Magnification,” and then press the Action Button to set the mode to Font Magnification.

In order to change and set the **Reading speed** from the Settings, press the **Home** Button to go to the **Main Menu**. Use the **Right Roller** to scroll down to the **Settings** menu item, and press the **Action Button** to select it. Use the **Right Roller** to scroll down to **General Settings**, and select it with the **Action Button**. Then, use the **Right Roller** to scroll down to **Reading Speed**, and select it with the **Action Button**. Next, use the **Right Roller** to scroll between the speed values from 1 (the slowest) to 10 (the fastest). Stop at the speed value you would like to select and set it by pressing the **Action Button** one final time.

### Voice/Language:

To adjust the setting for your preferred reading voice or language, press the **Home** Button go the **Main Menu**. Use the **Right Roller** to scroll down to the **Settings** option, and press the **Action Button** to choose it. Use the **Right Roller** to scroll down to the **General Settings**, and press the **Action Button** to select it. Next, use the **Right Roller** to scroll down to the **Voice** option, and choose it by pressing the **Action Button**. Then, use the **Right Roller** to scroll through available language/voice combinations and stop at your preference. Press the **Action Button** one final time to set the selection.

The reading language and language of the document need to match. If the language of the document does not match the selected reading language, the text recognition will not be accurate.

### **To Navigate Through Text:**

The five standard **Daisy Buttons** are used for text navigation. Pressing the left or right arrow button allows you to, respectively, move to the previous or next word. The Ace Plus reads aloud. Pressing the up or down arrow buttons allows you to, respectively, move to the top or bottom of the page. Scrolling up or down with the Right Roller allows you to move, respectively, to the previous or next line. Press and hold the Daisy center button while repeatedly pressing the right arrow button to spell out the next word. Press and hold the Daisy center button while pressing the left arrow button to spell out the previous word. Press the Action Button to pause or resume reading.

By default, the Ace Plus will recognize *text columns* as separate pages. If you wish to disable the column recognition in order to accurately read tabulated text, press and hold the left and right arrow buttons simultaneously until you hear the announcement, "switched to table mode." Press the same two buttons again when you want to switch back.

Press the up and down arrow buttons simultaneously to hear the orientation of the document.

### **Text Mode**

In Text Mode, the scanned document is presented on the screen as an electronic book (e-book). The number of lines on the page depends on magnification. Because the width of the Ace Plus screen is the same as the width of a letter-size page, you can read your document as if it were a large font e-book, where you control the size of the font with the Left Roller. (Please note: the Left Roller Mode must be at its default "Font Magnification" mode in order to be able to control the size of the font. See the previous section for instructions on how to switch Left Roller Mode options). Use the Right Roller to move one line up/down.

## **Generic Scan and Read Settings**

Generic Scan and Read settings apply to both reading modes.

### **Font, Font Size, Contrast:**

In order to adjust the setting for your preferred font, font size or contrast, press the **Home Button** to go the **Main Menu**. Use the **Right Roller** to scroll down to the **Settings** menu item. Press the **Action Button** to confirm the menu item selection. Use the **Right Roller** to scroll down to **General Settings**. Press the **Action Button** to select this menu choice. Then, use the **Right Roller** to scroll down to one of the



options: **Font**, **Font Size** or **Contrast**. Press the **Action Button** to confirm the menu item selection. Then, use the **Right Roller** to scroll through available options. Press the **Action Button** one final time to set the selection.

### **Reading Volume:**

Turn the Volume Knob clockwise to increase the volume of the voice. Turn the knob counterclockwise to decrease it.

### **Tables and Spreadsheets:**

By default, the Ace Plus will recognize *text columns* as separate pages. If you wish to disable the column recognition in order to accurately read tabulated text, press and hold the left and right arrow Buttons simultaneously until you hear the announcement "Switched to table mode." Press the same two Buttons again when you want to switch back.

### **Reading tall food packaging:**

Tall food packages, such as a cracker box, can be read as long as the top of the package does not come closer than four inches from the camera lens. For packages where the entire dimension of the box is four inches or less, place the package under the right camera only. When placing a package, press and hold the Scan Button for three seconds - that way the camera will bring the item into sharp focus before taking the snap shot.

## ***Managing Documents***

### **Saving Documents and Books**

The Ace Plus allows you to save single-page documents, multi-page documents and books. Documents and books can be saved internally or on a USB external memory device (flash drive). When following the steps for saving documents, if a flash drive is plugged in, the documents will be saved on it. If there is not a flash drive plugged in, it will be saved internally.

### **Saving a Single-page Document**

To start saving a document, select Scan and Read from the Main Menu using the Action Button.

Steps to save a single-page document:

Press the Scan Button to scan the document. After the Ace Plus starts reading the text, press and hold the Action Button, then press the Back Button. Three options will be displayed:

- Save:

- Open:
- Delete:

If the first option you hear is Save, press the Action Button. If the first option you hear aloud is not Save, use the Right Roller until you come to the Save option and then press the Action Button. The Save menu will be displayed with three options:

- Save without voice label
- Save with voice label (for use only for items saved to the Ace Plus device not to a USB flash drive)
- Save Book

To save a single-page document without a voice label, select the first option by pressing the Action Button. The name of the saved document will be the first line of text. If the document does not resume reading on its own, press the Action Button to resume reading.

To save the document with a voice label, select the second option by pressing the Action Button. You will hear the prompt: “Please record five-second voice label.” Speak the name of the document after you hear a beep. At the end of the recording you will hear another beep, and the voice label will be played back to you. You will then hear, “Confirm Save.” If you are satisfied with your recording, press the Action Button, and you will hear an announcement with the first line of the document that the document has been saved. If you were not satisfied with the voice label you recorded that was played back, press the Back Button to be prompted to record again.

**NOTE: Single-page documents are saved as text file. If the page has a lot of text or complex configuration, the OCR process may take more than a minute. Please do not interrupt it until OCR is complete and text is displayed on the screen.**

## **Saving a Multi-page Document or Book**

To start saving a multi-page document or book, select Scan and Read from the Main Menu using the Action Button.

Steps for Saving a multi-page document or book:

Press and hold the Action Button, then press the Back Button. Three options will be given:

- Save:
- Open:
- Delete:

If the first option you hear is Save, press the Action Button. If the first option you hear is not Save, use the Right Roller until you come to the Save option, and then press the

Action Button. The Save menu will be displayed with three options:

- Save without voice label
- Save with voice label (for use only for items saved to the Ace Plusdevice, not to a USB flash drive)
- Save Book

Use the Right Roller to scroll down to the “Save Book” option, and press the Action Button. You will hear “Please, record five-second voice label.” Speak the name of the book after you hear a beep. At the end of the recording, you will hear another beep, and the voice label will be played back to you, followed by “Confirm Save.” If you are satisfied with your recording, press the Action Button. To cancel the recording, press the Back Button. You will be prompted to record again. You will hear: “Confirm Save.” Confirm using the Action Button. Then, you will hear: “Start scanning pages.”

To start adding pages to your multi-page document or book, place the first page you want to scan under the camera and press the Scan Button. You will hear the double shutter sound. Turn the page, and press the Scan Button again to add the next page. When you have finished adding pages, press and hold the Action Button, then press the Back Button. You will hear: “Book saved.”

## **Opening a Single-page Document**

To open a previously saved single-page document, go to the Main Menu and select the Scan and Read Option with the Action Button and then press the Back Button. Use the Right Roller to scroll down to Open, and press the Action Button. The Ace Plus will read the label for the last saved document. Use the Right Roller to scroll through the list, and press the Action Button to select the document or book you need.

## **Opening a Book**

To open a previously saved book, go to the Main Menu and select the Scan and Read Option. Press and hold the Action Button, and then press the Back Button. Use the Right Roller to scroll down to Open, and press the Action Button. Use the Right Roller to scroll through the list and press the Action Button to select the book you would like to open. The book will open in a JPG format initially, then it will be converted to text and read aloud.

## **Converting a Book to Text**

Select the Open option as instructed in the previous paragraph. Press the Action Button to select a book you’d like to read. Three menu options will be given:

- Open Book

- **Convert Book to Text**
- Convert Book to MP3

Scroll with the Right Roller to Convert Book to Text, and press Action Button to select. You will hear: “Please wait.” Do not interrupt the process of conversion images to text. Next, you will hear: “Conversion complete.” Please note that conversion to text may take a long time and depends on how many pages are being converted. To read the converted book, go to Open book, select the book you would like to read, then select the text file.

## **Converting a Book to MP3**

**NOTE: This option available only for books that are scanned through the Ace Plus and saved onto a flash drive. Do not use it for the internally saved books.**

Select the Open menu as instructed previously. Press the Action Button to select a book you’d like to convert to audio. Three menu options will be given:

- Open Book
- Convert book to text
- **Convert Book to MP3**

Scroll with the Right Roller to Convert Book to MP3, and press the Action Button to select. You will hear: “Please wait.” Do not interrupt the process of conversion images to MP3. Next, you’ll hear: “Conversion complete.” Now you can take out the flash drive and insert it in your computer or MP3 player to listen to the saved book.

## **Book Navigation**

While reading the saved book, use the Daisy Buttons as follows:

- Press the Up arrow to go to the previous page. You will hear, for example: “Opening page two of three”
- Press the Down arrow to go to the next page. You will hear, for example: “Opening page three of three”
- Press the Left arrow to go to the previous word
- Press the Right arrow to go to the next word
- Press and hold the Center Daisy Button while repeatedly pressing the Right arrow to spell out the next word. Press and hold the Center Daisy Button while repeatedly pressing the Left arrow to spell the previous word.
- Press the Action Button to pause/resume reading

## **Deleting a Document**

To delete a previously saved document or book, go to the Main Menu and select the

Scan and Read Option with the Action Button, and then press the Back Button. Use the Right Roller to scroll down to Delete and press the Action Button. The Ace Plus will read the label for the last saved document. Use the Right Roller to scroll through the list, and press the Action Button to select the document or book you want to delete. You will hear: “Are you sure you want to delete?” If you are sure, press the Action Button, or, if it is not the document you want to choose, press the Back Button to select a different document.

## ***Library***

The Library menu item provides the ability to search for and download books from Bookshare and read them with or without voice output on the Ace Plus. To use this feature, you must have an existing Bookshare account. Additionally, you must have access to a wireless network.

If you have a Bookshare account and a wireless network to connect to, follow the steps in the section above on “Internet Options” to:

- Add an available Network to your device and
- Connect to a Network

Now you are ready to sign on to your Bookshare account.

## **How to sign on to your Bookshare Account**

Before downloading books, you will need to sign on to Bookshare with your Bookshare password. To do this, begin from the Main Menu screen and use the Right Roller to scroll to Settings and select it with the Action Button. Next, scroll to and select System Settings. Then, scroll to and select Network Accounts. Scroll to and select Bookshare. Enter your Bookshare password using the entry method described above under “Internet options.” Now you are ready to Download Books!

## **To Download Books:**

Start at the Main Menu screen and scroll to and select Library. You will hear “Manage Books.” Press the Action button to select this function. You will hear “Download More Books.” Press the Action Button, and you will hear “Enter search query.” Enter the book title you want to download using the entry method described above under “Internet options.” Scroll through the search results with the Right Roller and choose your selection with the Action button. The book will be added to your Library.

## **To Read a downloaded book**

Start at the Main Menu screen and scroll to and select Library. Scroll past the “Manage

Books” prompt and you will begin to hear the titles of the books you have downloaded. Stop at the book title you would like to read and choose it with the Action button. It will begin reading aloud and display on the screen. If you prefer to just read it on the screen, turn on the Reading Mode from General Settings menu choices before opening the book.

## **To Delete a downloaded book**

Start at the Main Menu screen and scroll to and select Library. When you hear “Manage Books,” select it with the Action Button. Use the Right Roller to scroll down to Delete Books and choose it with the Action Button. Scroll through the titles of the books you have downloaded and stop at the book you would like to delete and choose it with the Action Button. You will be asked if you are sure you want to delete your selection. If you do not want to delete the selection that is read or shown, press the Back Button. If you are sure you want to delete it, press the Action Button.

## ***Email***

To access the email function, you must have access to a wireless network as described in the section above on “Internet Options.”

If you have access to a wireless network that the Ace Plus can connect to, you can use the Email option by following these instructions below and referring to the section above under “Internet Options” as needed.

### **A. Sign on to your email account by entering your Username.**

To do this, begin at the Main Menu screen, and then scroll to Settings and select it with the Action button. Next, scroll to and select System Settings. Then scroll to and select Network Accounts. Finally, scroll to and select Email. When you hear “Username,” press the Action button. You will be prompted to enter your username. For your Username, please enter the name provided by AbiSee.

### **B. Add an available Network to your device**

### **C. Connect to a Network.**

### **D. Enter Names and Email Addresses in your Address Book.**

To do this, begin at the Main Menu screen, scroll to and select Address Book. Next select Add New Entry. First enter the name of the person you’d like to add using the entry process above and press the Right Daisy arrow to save it. Next, enter email address. It should be in the correct email format such as abc@gmail.com. Press the Right Daisy arrow to save.

You may want to enter several contacts you would like to send to or receive emails

from because your device will only retrieve emails from and send emails to people you have entered in your Address Book.

**E. Use email functions.** Check Network Connection by pressing the Round Center Daisy Button. An announcement will be made as to which Menu you are in, the battery status and Network: Connected or Disconnected. If you hear Disconnected, make sure you are in an area where WiFi is available. Then, either Add a network following the steps above if the network has not been added yet, or follow the steps for Connecting to a Network.

**To send an email,** start from the Main Menu screen, scroll to and select Email. Scroll to and select Send e-mail. Scroll to the name you would like to send an email to and select it with the Action Button. (If you do not find the name, follow the instructions in the “Internet Options” section to Enter Name and Email Address in the address book).

Once you have selected the name to send the email to, select Add Voice Attachment. You will be prompted to Press Action Button to Record. Speak the message you would like to send and press the Action button again. It will play your recording back to you and then, if you don’t like the message, you can choose to Change Voice Announcement. Once you like the Voice Attachment, you can either Add an Image along with it, or just send the Voice Attachment.

To add image, scroll to and select Add Images. You will be prompted to Press the Scan Button to add image. You can then either add another image or, if you are ready to send the email, scroll to and select Send e-mail. You will hear, for example, Sending voice attachment and one image.

Alternatively, a person can elect to send an email without a voice or image attached as a means to simply and easily send a “Hi” signal to communicate with someone

**To check for new email,** begin at the Main Menu screen and scroll to and select email. Next Scroll to check for new e-mail. You will hear an announcement as to whether new messages were retrieved or not. If there are new messages, they will come up on the next screen with the name of the person who sent it and the subject line. You can select the message you want to view by pressing the Action Button and/or scroll to the next retrieved message if more than one was retrieved. Once you have read a new email, it will be saved for access in the View e-mail Menu unless you choose to delete it.

**To Delete an email,** start from the Main Menu screen, scroll to and select Email. Then Scroll to and select Delete e-mail. You will hear the date the email came in, the name of the person who sent it and the subject line. Scroll to the email you want to delete and choose it with the Action button. It will then ask you to Confirm delete. If you

do not want to delete it, press the Back button above the Left Roller. If you do want to delete it confirm by pressing the Action button.

## ***Address Book***

The Address Book option allows you to add email address for people you would like to send or receive emails. Refer to the section above under “Internet Options” for instructions on how to enter names and addresses into the Address Book.

## ***Calendar/Reminders***

The calendar application allows you to create reminders for yourself using your voice. You can create a new reminder for today or any future date. You can define the exact time hour/minutes when you want to hear an alarm with the message you recorded. You can hear your reminder for today, or for the next week (7 days) or for the next month (31 days). Any reminder may be deleted or re-recorded.

To use the calendar function, press the **Home Button** to go to the **Main Menu**. Then use the **Right Roller** to scroll down to the **Calendar** menu item, and press the **Action Button** to confirm the menu item selection. Use the **Right Roller** to scroll down to one of these options: **Add reminder, All reminders, next 7 days, next 31 day, Reminders by day**. Press the **Action Button** to confirm the menu item selection, then follow the voice commands. Next, use the **Right Roller** to scroll through available options. Press the **Action Button** one final time to set the selection.

When you select the Calendar application from the Main Menu, the Ace Plus announces the current date. Use the Right Roller to scan through the options and press the Action Button to select your choice:

- Today
- Add Reminder
- Reminders by Day
- Next 7 days
- Next 31 days
- All Reminders

For any of the above options you will use the Right Roller to scroll through saved reminders or hear the message that there are no reminders for the selected day.

To add a new reminder select the “Add Reminder” option. Select a date using the Left Roller to change the month and the Right Roller to change the day of the month. Press the Action Button to confirm the selected day. You will be prompted to start recording



your reminder. Your recording may be no longer than 30 seconds. The Ace Plus will play back the recording and you will be given an option to delete or to change it.

## ***Zoom***

Select **Zoom** when you need to write a check or magnify any small object like a hearing aid. The right camera will be used to see the magnified image on the screen. Place a small object in the designated area on the small object placemat that came with your device. Use the **Left Roller** to zoom in/out. Use the **Right Roller** to adjust sharpness. Use the **Action Button** to re-focus. Use the **right arrow** (Daisy Button) to adjust the contrast. Use the **middle round button** (Daisy Button) to return to the original contrast.

**NOTE: When changing the object being magnified to a new object of a different height, such a switching from a sheet of paper to now have the Ace Plus read a small box, press the Action Button one time to re-focus.**

## ***Photo Album***

The photo album allows you to load photos or any jpeg image into albums on your device from a USB drive and to be able to voice record a name for the album and each individual image. The album can be used to store anything from family photos to curriculum oriented power point slides for educational purposes. Slides that depict reminders for activities of daily living can be loaded into the albums as well as brain teasers, quizzes and games.

To use the Photo Album functions, start from the Main Menu and scroll to and select photo Album. You will be given sub-menu options to View Album, Add Photos to Album, Delete Album and Rename Album.

To View an album, start at the Main Menu. Scroll to and select Photo Album. When you read or hear “View Album” select it with the Action Button. The albums that are available for viewing will be given as options. Scroll to the album you would like to open and choose it with the Action Button.

To magnify the picture on the screen use the Left Roller. To move the magnified image use the left/right and up/down arrows. Use the **Right Roller** to move to the next picture.

To Add Photos to the Ace Plus, the photos must first be saved on a USB flash drive in a folder named “Pictures.” Insert the USB flash drive into the USB port located on the left side of the device. From the Main Menu scroll to Settings, then select Add/Remove Photos and follow the voice instructions. You will be able to scroll to and select an existing album to add new photos to or scroll to and select “Create New Album.”

Once you have chosen the album you want to add photo(s), you will be prompted to insert a device with photos. You will need to insert a USB drive with photos saved on it in a folder named "Pictures." In order for your USB drive to work with the Ace Plus, the USB drive itself will need to have a name that does not include any spaces in the name. If your USB name does have spaces, rename your USB to something that does not have spaces. When you insert the USB with the Picture folder, the photos will be added to the album you chose.

To record a voice label: From the Main Menu, use the Right Roller to scroll to Photo Album and select it by pressing the action button. Scroll to View Album and choose this menu option with the Action button. Scroll to the album you want and select it with the Action button. Scroll to the photo that you want to label and choose it with the Action button. Scroll to Record Voice Label with select it with the action button. You will be prompted to record your label. To delete a picture, follow the instructions above under record voice label until the point where you scroll to the photo you want. Once you select the photo you will be given the option to Record Voice Label or Delete Photo. Scroll to Delete Photo and choose it with the Action button. You will hear "Are you sure you want to delete this photo?" If you are NOT sure you want to delete it, press the back button on the left shoulder of the device. If you are sure you want to delete it, press the action button, and the photo will be deleted.

To Delete an Album, start at the Main Menu. Scroll to and select Photo Album. Scroll to and select Delete Album. Scroll to the album you would like to delete and select it with the action button. You will receive a message that the Album still has photos and it will ask you if you want to delete anyway. If you are NOT sure you want to delete it, press the back button on the left shoulder of the device. If you are sure you want to delete it, press the Action Button, and the album will be deleted.

To Rename an Album, start and the Main Menu. Scroll to and select Rename Album. Scroll to and select the album you want to rename. Follow the prompts to record a new name.

## ***Clock/Alarm Clock***

Select Clock from the Main Menu to instantly hear current day/time. To set the alarm time and access the set alarm mode functions, press the Action Button. To set the alarm time, select alarm time and use the Left Roller to change the hour, and the Right Roller to change the minutes. Next, press the Action Button to select which mode you prefer – One Time Alarm or Daily Alarm. Press the Action Button to confirm your mode selection. If you want to turn the alarm function off, return to the Set Alarm Mode function and use the Right Roller to scroll down to the OFF option.

Note: If the current day/time is not correct, the day and time can be adjusted to the correct time from the System Settings Menu. To do this, start from the Main Menu, scroll to and select Settings. Next, Scroll to and Select System Settings. Scroll to and select Set Time and Date and press the Action Button. To Change the time scroll to and select Set Time. Use the Left Roller to adjust the hour and use the Right Roller to adjust the minutes. When you have entered the correct time, press the Action Button. If you want to change the day, Scroll down to Set Date. Use the Left Roller to adjust the month and the Right Roller to adjust the date. Press the Action button when finished. To set the Alarm time, begin at the Main Menu and Scroll to and select Clock. Press the Action Button one more time and scroll to and select Set Alarm Time. Use the same process as when setting the clock. To Set the Alarm Mode, from the Clock sub-menu, scroll to Set Alarm Mode. You can scroll between and select your preference for One Time Alarm, Daily Alarm or Off.

To change the clock from 12 to 24 hour mode, start from the Main Menu and Scroll to and select Settings. Next, select General Settings and scroll to and select Time Format. Scroll to your preference of 12 hour or 24 hour format and select it with the Action Button.

## ***Settings***

The following options are available:

General Settings

Reading Speed

Reading Mode

Voice

Left Roller Mode

Font

Font Size

Contrast

Time Format

Grade 2 Braille

Enable Additional Voice Guidance

Status:

Battery

Version

Model

Serial Number

Network Connection Status

System Settings

Customize Main Menu

Upgrade Software (When new software versions are released, they can be obtained from AbiSee, Inc or your local dealer and can be installed by

selecting this setting)  
Wireless Network Settings  
Network Accounts  
Set Time and Date  
Device Registration

Reset All Settings (Resets all to default settings).

**NOTE: The Ace Plus must be turned off/on after changing the Time and Date.**

## ***Help***

Select the Help option from the Main Menu to hear the detailed description of the Ace Plus functionality and how to use each function. You can interrupt the Help talk by pressing any Button, and the Ace Plus will explain the function of the selected Button. If you press the Home Button, it will bring you to the Main Menu.

If you would like to have continual voice instruction as you navigate through menu options, you can “Enable Additional Voice Guidance” by choosing the Setting Menu, from the Main Menu and then choosing General Settings. Next scroll to and select “Enable Additional Voice Guidance,” and scroll to and choose “Yes.”

# WARRANTY

## ***TWO YEAR WARRANTY ON ALL ABiSEE, INC. PRODUCTS:***

ABiSee, Inc. warrants to the original purchaser that its products are free from defects in materials and workmanship (with exception of the battery) for two years from the date of purchase. The battery is warrantied against defectiveness for nine months from the date of purchase. This warranty does not cover accidental damage, misuse, improper care or alteration, acts of God - such as floods and earthquakes, any products whose mechanical serial number or electronic serial number has been removed, altered or defaced, or damage from exposure to moisture, humidity, excessive temperatures (outside the range of 55-86 degrees F) or extreme environmental conditions. Coverage terminates if the original purchaser sells or otherwise transfers the product.

To report a warranty defect, please contact your local distributor or ABiSee, Inc. Please include your email and telephone number so that we may contact you. If, after inspection, we find that the product is defective in materials or workmanship, we shall, at no charge to you, repair or replace the product at our discretion, and return the product to you. You are responsible for shipping costs to ABiSee, Inc. but there is no charge for the inspection or the return postage.

This warranty excludes claims for incidental or consequential damages in connection with the warranty problem. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

To obtain warranty service, a warranty card must have been filled out and mailed back to ABiSee, Inc. ABiSee, Inc. sells only through authorized distributors. Online auction confirmations are not accepted for warranty verification and ABiSee, Inc. will not replace missing components from any package purchased through an online auction or any other authorized source. ABiSee, Inc. retains the exclusive right to either repair or replace the unit with a refurbished unit or new unit at its sole discretion. The same policy shall apply to software.

## Appendix A: Safety Rules

- Handle the Ace Plus with care. Rough handling will damage the device.
- Be especially careful with the screen – do not touch it with sharp objects. When you carry the device outside, use the special bag. If the Ace Plus is not in a standing position, do not place any heavy or sharp objects on the screen surface.
- Use only the Power Adapter that comes with the Ace Plus.
- Do not open the Ace Plus under any circumstances; it will void the warranty. Contact AbiSee or your dealer for service if necessary.
- Remember that the battery is built-in, and cannot be removed.
- Do not expose the Ace Plus to excessive heat or direct sunlight to avoid risk of fire.
- Do not use the Ace Plus near inadequately shielded medical devices.
- To avoid risk of electrical damage, keep your Ace Plus away from water or fluid chemicals.
- To clean the device, always unplug it first. Use a soft fabric with no chemicals or abrasives to clean the Ace Plus, and only clean the exterior of the device. Use the special spray that is used for cleaning laptop screens to clean the Ace Plus screen.
- When storing devices, do not put any heavy items on top of it.

Use of the Ace Plus only as it is described in this manual. Warranty will be voided if the device is used with violations of these rules.

## Appendix B. Troubleshooting

When turning on the Ace Plus, make sure no flash drives are plugged into the device.

### **Troubleshooting: Power/battery/connections**

#### **1. If the Ace Plus does not respond to any Button:**

- Make sure the battery is charged. If the battery is empty, connect the power adaptor to charge the battery.
- If the battery is fully charged, but the device stopped responding to any Button, turn the device off, then on again.

#### **2. If the adaptor does not power the Ace Plus:**

- Check the connections. Make sure the power adaptor is firmly connected to the Ace Plus and to the power outlet.
- If the adaptor still does not power the unit, contact Abisee or your ABiSee distributor.

#### **3. If the battery does not power the Ace Plus:**

- The battery may need to be charged. Connect the power adaptor to charge the battery.

### **Troubleshooting: Scan and Read Application**

#### **1. If the text you are reading does not make sense:**

- Do not stress the Scan Button. Press it and wait for the shutter sound.
- Make sure your reading language is the same as the language of your document.
- Switch to/from tables reading mode.

#### **2. If the text recognition takes unusually long before starting to read your document or it is not accurate:**

- Make sure your reading language is the same as the language of your document.
- Place a document, leave it still and make sure that there is nothing between the cameras and the document.
- Press the Scan Button just once and wait for the shutter sound.
- Do not stress the Daisy keys during the OCR process, wait until OCR is done before you navigate through the text.

## **Troubleshooting: Calendar Application**

### **1. If you do not hear the reminder after you finished your recording:**

- Increase the volume – turn Volume knob clockwise.
- Make sure that when you are talking your Ace Plus is close to the device.

### **2. If you think that you did not hear the reminder you have entered at the right date/time:**

- Go to the Main Menu, and select Calendar. Use the Right Roller to scroll to All Reminders, and press the Action Button to select. Check whether the expected reminder exists. It is most likely that the reminder has not been scheduled for the time you tried to hear it.



# Appendix C: Braille Display Information

## ***Part A: Using a refreshable Braille display with the Ace Plus***

(See Part B of Appendix C for details on supported Braille displays and information on which controls on each particular display corresponds to which control on the Ace Plus).

To use a refreshable Braille display with the Ace Plus, turn on the Ace Plus device by pressing the power button. Please wait until the device is fully booted and you hear “Scan and Read,” and then connect the Braille display to Ace Plus using the USB port located on the left side of the device. The Braille display should start within 10-30 seconds.

Please note, if you want to use Grade 2 Braille, after the device has booted up you will need to turn on the Grade 2 Braille display capability. To do this, press the Home Button to get to the Main Menu. Use the Right Roller to Scroll down to Settings and select this option by Pressing the Action Button. Next Select General Settings by pressing the Action Button. Scroll down to Grade 2 Braille and Select it with the Action Button. Scroll to “On” and Select it with the Action Button. Connect the Braille display to Ace Plus using the USB port located on the left side of the device. Wait for about 30 seconds for the Braille display to start.

The next steps are for either type of Braille display.

Choose the Scan and Read menu option from the Main Menu. Take a picture by pressing the Scan button. It will start reading aloud. When scanning a document by pressing the Scan button on a Braille display, there is no voice output.

Use the right or left button on the Braille display to move back and forward line by line. Cursor will move accordingly.

To use Braille without the voice output, press the Action button to pause and use the buttons on your Braille display to navigate through the text (see Appendix C for details on your particular display). Voice will stop, cursor will follow along as Braille is moving.

Please note: If you are doing a quick check of the battery status and network connection status by pressing the Center Daisy Button, and you are using a Braille display, once you press the Center Daisy Button on the Ace Plus, you can use the Right Roller or equivalent controls on your Braille display to scroll to the battery status and the Network Status. Once you have read the status, you can press the Back Button (or equivalent) to return to the screen you were on.

## ***Part B: Supported Braille Displays and Control Details***

This section has a picture of each of the supported Braille displays with the buttons labeled. After each diagram, there is a table that lists each control on the Ace Plus in the first column, followed by the corresponding control on the Braille display in the second column. If you are scanning and reading this manual, you will need to press the left and right Daisy arrows at the same time to switch to table mode in order to hear the information in the correct order.

### ***Freedom Scientific Focus 14***

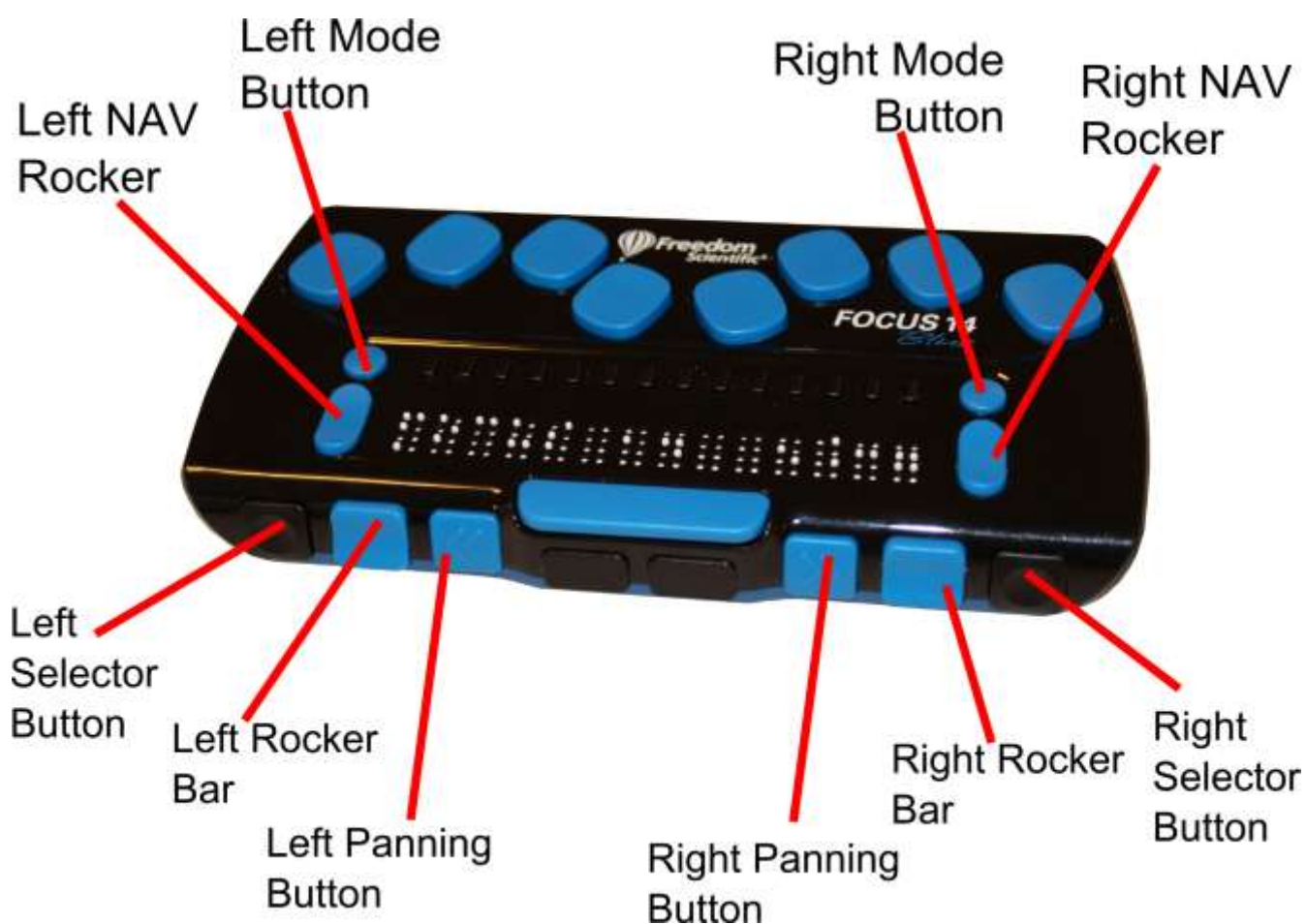


Table of corresponding controls for the Freedom Scientific Focus 14

<b>Control on Ace Plus:</b>	<b>Control on Braille Display.</b>
Right Roller Up:	Right NAV Rocker Up.
Right Roller Down:	Right NAV Rocker Down.
Left Roller Up:	Left NAV Rocker Up.
Left Roller Down:	Left NAV Rocker Down.
Action:	Right Mode Button.
Back:	Left Mode Button.
Scan:	Right Selector Button.
Home:	Left Selector Button.

<b>Function:</b>	<b>Control on Braille Display.</b>
Pan Display Left:	Left Panning Button.
Pan Display Right:	Right Panning Button.

## ALVA BC640

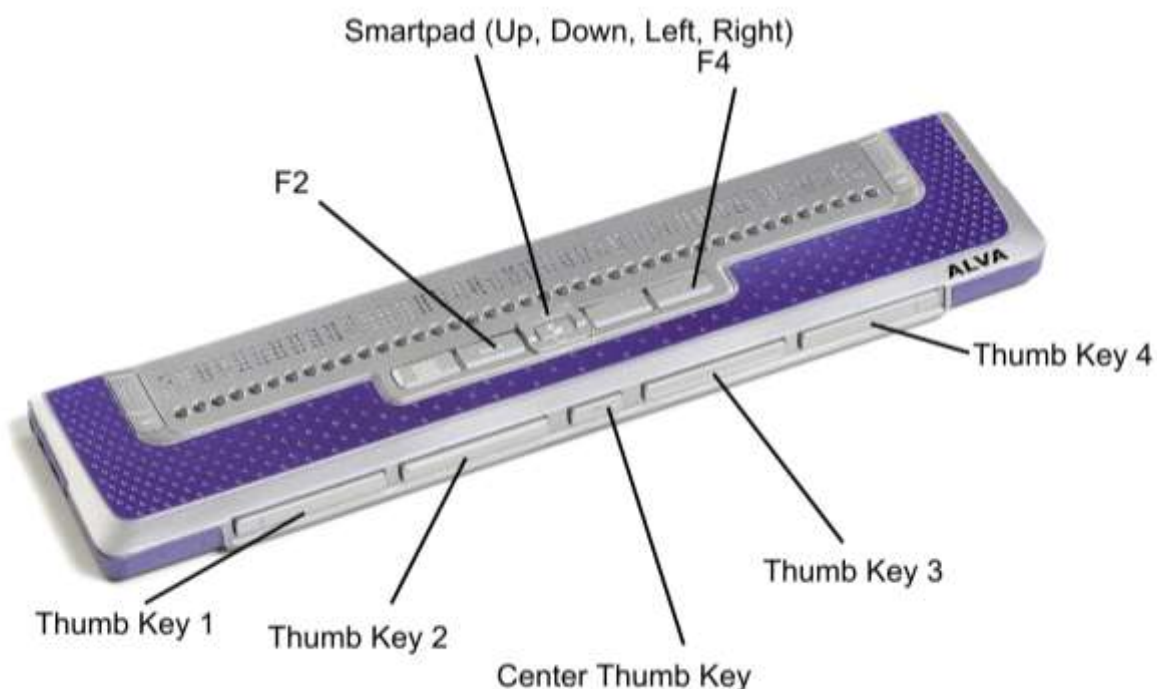


Table of corresponding controls for the ALVA BC640

<b>Control on Ace Plus:</b>	<b>Control on Braille Display.</b>
Right Roller Up:	Smartpad Up or Thumb Key 2.
Right Roller Down:	Smartpad Down or Thumb Key 3.
Left Roller Up:	F4 + Smartpad Left.
Left Roller Down:	F4 + Smartpad Right.
Action:	Smartpad Right.
Back:	Smartpad Left.
Scan:	Center thumb key.
Home:	F2.
Volume Down:	F4 + Smartpad Down.
Volume Up:	F4 + Smartpad Up.

<b>Function:</b>	<b>Control on Braille Display.</b>
Pan Display Left:	Thumb Key 1.
Pan Display Right:	Thumb Key 4.

## ***APH Refreshabraille 18***



Table of corresponding controls for the APH Refreshable 18

<b>Control on Ace Plus:</b>	<b>Control on Braille Display.</b>
Right Roller Up:	Joystick Up or SPACE+1.
Right Roller Down:	Joystick Down or SPACE+4.
Left Roller Up:	SPACE+1+2.
Left Roller Down:	SPACE+4+5.
Action:	SPACE+8.
Back:	SPACE+1+5 (E-chord) or SPACE+7.
Scan:	Joystick Press or SPACE+2+3+4 (S-chord).
Daisy Center:	SPACE+3+4 (ST-chord).
Daisy Left:	SPACE+3.
Daisy Right:	SPACE+6.
Daisy Up:	SPACE+1+2+3 (L-chord).
Daisy Down:	SPACE+4+5+6.
Home:	SPACE+1+2+3+4+5+6 (FOR-chord).
Volume Down:	SPACE+2+3.
Volume Up:	SPACE+5+6.

<b>Function:</b>	<b>Control on Braille Display.</b>
Pan Display Left:	Left Bar or Joystick Left.
Pan Display Right:	Right Bar or Joystick Right.

## ***HIMS Braille Edge 40***

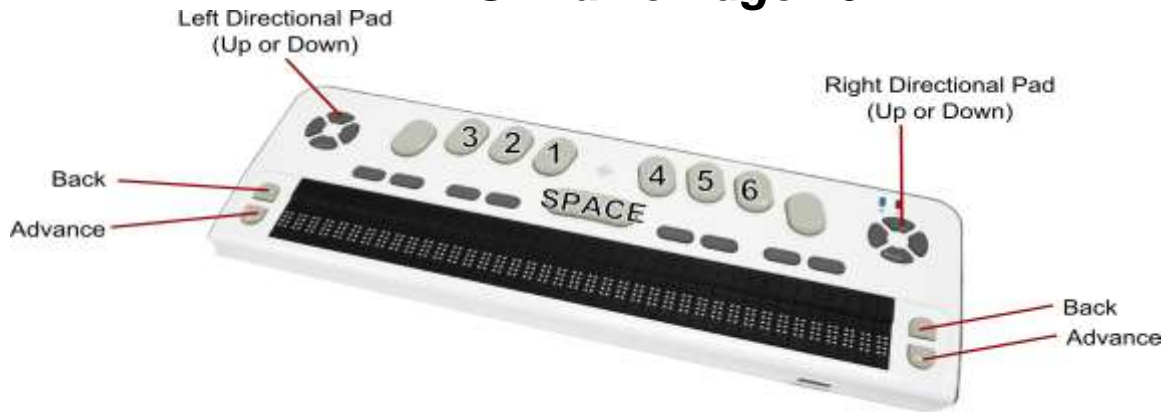


Table of corresponding controls for the HIMS Braille Edge 40

<b>Control on Ace Plus:</b>	<b>Control on Braille Display.</b>
Right Roller Up:	Up on either directional pad or SPACE+1.
Right Roller Down:	Down on either directional pad or SPACE+4.
Left Roller Up:	SPACE+1+2.
Left Roller Down:	SPACE+4+5.
Action:	SPACE+8.
Back:	SPACE+1+5 (E-chord) or SPACE+7.
Scan:	SPACE+2+3+4 (S-chord).
Daisy Center:	SPACE+3+4 (ST-chord).
Daisy Left:	SPACE+3.
Daisy Right:	SPACE+6.
Daisy Up:	SPACE+1+2+3 (L-chord).
Daisy Down:	SPACE+4+5+6.
Home:	SPACE+1+2+3+4+5+6 (FOR-chord).
Volume Down:	SPACE+2+3.
Volume Up:	SPACE+5+6.
<b>Function:</b>	<b>Control on Braille Display.</b>
Pan Display Left:	Back.
Pan Display Right:	Advance.

## ***Humanware/PDI Brailliant 40***



Table of corresponding controls for the Humanware/PDI Brailliant 40

<b>Control on Ace Plus:</b>	<b>Control on Braille Display.</b>
Right Roller Up:	1.
Right Roller Down:	4.
Left Roller Up:	1+2.
Left Roller Down:	4+5.
Action:	1+5 (E).
Back:	1+3+4+6 (X).
Scan:	2+3+4 (S).
Daisy Center:	3+4 (ST).
Daisy Left:	3.
Daisy Right:	6.
Daisy Up:	1+2+3 (L).
Daisy Down:	4+5+6.
Home:	1+2+3+4+5+6 (FOR).
Volume Down:	2+3.
Volume Up:	5+6.

<b>Function:</b>	<b>Control on Braille Display.</b>
Pan Display Left:	2.
Pan Display Right:	5.



## ***Humanware Brailiant bi40***

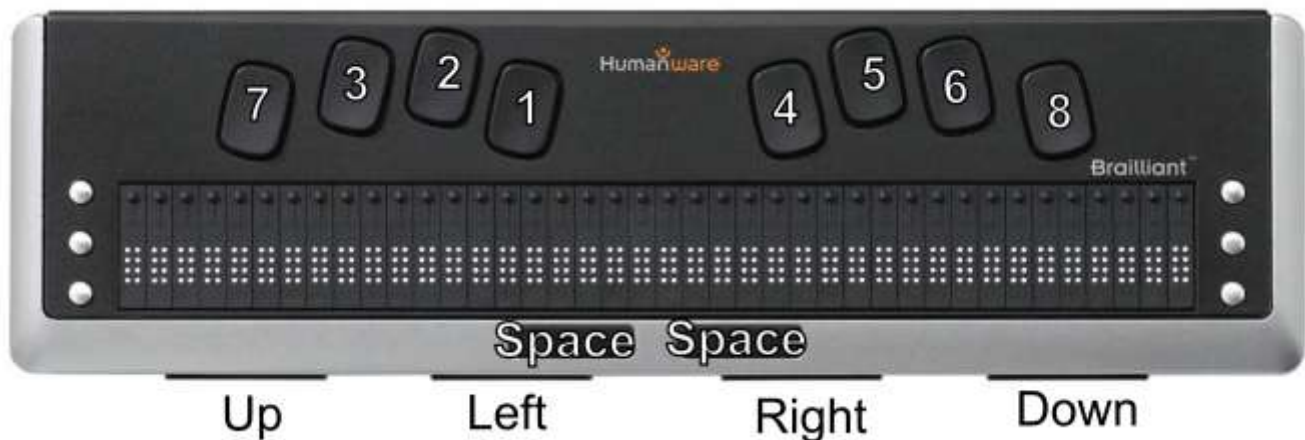


Table of corresponding controls for the Humanware Brailiant bi40

<b>Control on Ace Plus:</b>	<b>Control on Braille Display.</b>
Right Roller Up:	SPACE+1 or Left.
Right Roller Down:	SPACE+4 or Right.
Left Roller Up:	SPACE+1+2.
Left Roller Down:	SPACE+4+5.
Action:	SPACE+8.
Back:	SPACE+1+5 (E-chord) or SPACE+7.
Scan:	SPACE+2+3+4 (S-chord).
Daisy Center:	SPACE+3+4 (ST-chord).
Daisy Left:	SPACE+3.
Daisy Right:	SPACE+6.
Daisy Up:	SPACE+1+2+3 (L-chord).
Daisy Down:	SPACE+4+5+6.
Home:	SPACE+1+2+3+4+5+6 (FOR-chord).
Volume Down:	SPACE+2+3.
Volume Up:	SPACE+5+6.

<b>Function:</b>	<b>Control on Braille Display.</b>
Pan Display Left:	Up.
Pan Display Right:	Down.



## Contact ABiSee

**We welcome your comments, questions and suggestions.**

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